Xuefei Zhong

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Objective:

To obtain internship position using skills in software engineering, digital design, and data analysis.

Education:

Bachelor of Science, Computer Engineering,
UC San Diego, California
Graduation: June 2016
GPA: 3.7

Relevant Course Work:

- Mobile & Server Programming
- AI: A Statistical Approach
- Intro to Artificial Intelligence
- Design and Analysis of Algorithm
- Advanced Data Structures
- Database Systems Principles (in progress)
- Principles of Computer OS
- Parallel Computing
- Advanced Digital Design
- Software Engineering
- Engineering Probability and Statics
- Networked Services (in progress)

Technical Skills:

- Languages: C, C++, Java, Verilog, c#, html, SQL, Matlab
- Technologies: Quartus II, ModelSim, Junit, Git, Mean stack, AWS, Pspice, Eagle Cam
- Operating Systems: Unix/Linux(Ubuntu, CentOS), Windows
- Software Packages: Microsoft Word, Excel, Power Point, Eclipse

Projects:

Micro-Quadcopter class project
Designed, assembled, and tuned remote controlled multi-rotor aircraft
- Designed power and digital circuitry using Eagle Cam software
- Implemented and tuned PID control loop and communications protocol
- Integrated control software with open source Multiwii software

Advanced digital design class project
Implemented a FPGA based Run-length Encoding processor
- Conducted detailed timing analysis using Quartus II and ModelSim.
- Optimized architecture through extensive use of pipelining and parallel processing techniques
- 38% delay reduction and 45% resource reduction compared to previous quarter's best delay optimized design.

Software engineering class project
Coordinated the development of a retail account management application
- Acted as project manager and Scrum Master
- Scheduled and managed operations between 5 team members
- Used agile development process to ensure consistent progress and on scheduled delivery of final product
- Designed flexible and expandable software architectures using software design patterns

Mobile and server programming class project
Developed back end service of android application
- Configured and managed Amazon Web Service EC2 instance
- Built back end using Mean stack JavaScript framework
- Created custom REST api with JSON responses format

Awards:

Provost Honors